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APPLICATION N	iO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/992,803 11/19/2001		11/19/2001	Nicolas Pierre Georges Certain	2-1032-178	7350
803	7590	11/12/2004		EXAMINER	
STURM & FIX LLP				KING, BRADLEY T	
206 SIXT SUITE 12	TH AVENU 213	JE		ART UNIT PAPER NUMBER	
DES MOINES, IA 50309-4076				3683	
				DATE MAILED: 11/12/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)						
	09/992,803							
Office Action Summary	Examiner	GEORGES Art Unit						
	Bradley T King	3683						
The MAILING DATE of this communication app	l -	l !	ss					
Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely, the mailing date of this commu D (35 U.S.C. § 133).	unication.					
Status								
1) Responsive to communication(s) filed on 16 Au	iaust 2004							
•	action is non-final.							
3) Since this application is in condition for allowar	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims			•					
Claim(s) <u>1,3-15,17 and 18</u> is/are pending in the application.								
4a) Of the above claim(s) is/are withdraw	vn from consideration.							
5) Claim(s) is/are allowed.								
6) Claim(s) <u>1,3-15,17 and 18</u> is/are rejected.			,					
7) Claim(s) is/are objected to.								
8) Claim(s) are subject to restriction and/or	election requirement.							
Application Papers								
9) The specification is objected to by the Examine								
10)☐ The drawing(s) filed on is/are: a)☐ acce	•							
Applicant may not request that any objection to the	• • •	` '						
Replacement drawing sheet(s) including the correcti								
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-1	152.					
Priority under 35 U.S.C. § 119								
12)⊠ Acknowledgment is made of a claim for foreign a)⊠ All b)□ Some * c)□ None of:	priority under 35 U.S.C. § 119(a)	-(d) or (f).						
1. Certified copies of the priority documents	s have been received.							
2. Certified copies of the priority documents	s have been received in Application	on No						
, $3.\square$ Copies of the certified copies of the prior	ity documents have been receive	ed in this National Sta	ge					
application from the International Bureau	(PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of	of the certified copies not receive	d.						
Attachment(s)								
1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ite						
 Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 	5) Notice of Informal P	atent Application (PTO-152	2)					
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DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 18 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 18 recites "wherein both axial length". This limitation is awkward and confusing. Claim 18 further recites "the sleeve". It is not clear which of the two previously recited sleeves corresponds to "the sleeve".

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1 and 3 are rejected under 35 U.S.C. 102(b) as being anticipated by Byrnes et al (US#5449152).

Byrnes et al discloses all the limitations of the instant claims including; at least one set of two tubular cylindrical sleeves of viscoelastic material (figure 5) fitted one inside the other and substantially coaxial, with the interposition of a rigid cylindrical and

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substantially coaxial intermediate ring so that one of said two sleeves is an internal sleeve secured by an internal cylindrical face belonging to an external cylindrical face of an internal rigid ring and by an external cylindrical face to an internal cylindrical face of the intermediate ring separating the internal sleeve from the other sleeve of the pair of sleeves, which is an external sleeve secured, by an internal cylindrical face, to an external cylindrical face of the intermediate ring and, by an external cylindrical face, to an internal cylindrical face of an external rigid ring, the internal ring and the external ring being secured, respectively to an internal armature and to an external armature, each of which is connected to a respective one of two connecting members for connection of the parts.(also note Byrnes et al teach multiple shims between plys). Wherein each of two annular axial end faces of each of the sleeves is shaped as a meniscus delimited by a curved free surface with a concave side facing outwards along said axis; and wherein said axial length of each sleeve is measured between bottoms of the meniscuses of the two annular end faces of the sleeve (see figure 5). Regarding the recited equation, from the instant specification it appears that the equation merely requires that the stiffness of both layers be substantially equal. Byrnes et al is directed towards this same goal and further recognizes the equation for stiffness (column 3). Therefore, Byrnes et al. disclose a damper which substantially follows the required relation.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Byrnes et al (US#5449152).

Byrnes et al disclose all the limitations of the instant claims with exception to the particular type of elastomer and loss angle. Material selection is well known and routine in the art. It would have been obvious to one of ordinary skill in the art at the time the invention was made to select a material with the appropriate characteristics to maximize damping and achieve the required load capacities.

Claims 5-10, 13, 15 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Byrnes et al (US#5449152) in view of De Antonio et al (US#5205029).

Byrnes et al disclose all the limitations of the instant claims with exception to the elastomer being preloaded. Preloading elastomeric bearings is well known in the art and further taught by De Antonio et al for elastomers in the same environment. It would have been obvious to one of ordinary skill in the art at the time the invention was made to preload the elastomeric layers of Byrnes et al as taught by De Antonio et al to increase the service life of the device.

Regarding claims 7-9, the method of preloading the layers are equivalent methods which result in substantially the same final product.

Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over Byrnes et al (US#5449152) in view of McGuire (US#6092755).

Byrnes et al disclose all the limitations of the instant claim with exception to a radially thicker part on the outer ring to which the armature is connected. McGuire teaches an outer ring with a thicker part 29 allowing attachment to an armature 70. It would have been obvious to one of ordinary skill in the art at the time the invention was made to utilize the mounting structure taught by McGuire in the device of Byrnes et al to allow quick disassembly of the device and access to the internal surfaces of the damper.

Claim 12 is rejected under 35 U.S.C. 103(a) as being unpatentable over Byrnes et al (US#5449152) and McGuire (US#6092755), as applied to claim 11 above, in further view of De Antonio et al (US#5205029).

Byrnes et al and McGuire, as applied to claim 11 above, disclose all the limitations of the instant claims with exception to the elastomer being preloaded. Preloading elastomeric bearings is well known in the art and further taught by De Antonio et al for elastomers in the same environment. It would have been obvious to one of ordinary skill in the art at the time the invention was made to preload the elastomeric layers of Byrnes et al and McGuire as taught by De Antonio et al to increase the service life of the device.

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Claim 14 is rejected under 35 U.S.C. 103(a) as being unpatentable over Byrnes et al (US#5449152) in view of Olsen (US#6328293).

Byrnes et al disclose all the limitations of the instant claims with exception to the details of the end connections of the device. Olsen teaches a similar linkage system with threaded clevises having locking nuts 23c and opposite hand threads such that the linkage can be adjusted in place. It would have been obvious to one of ordinary skill in the art at the time the invention was made to utilize connecting structure such as taught by Olsen in the damper of Byrnes et al to simplify installation and maintenance.

Claim 18 is rejected under 35 U.S.C. 103(a) as being unpatentable over Byrnes et al (US# 5449152) in view of the admitted prior art of page 2 of the instant disclosure.

Byrnes et al disclose all the limitations of the instant claims with exception to relative lengths of the faces of the sleeves (which corresponds to extent of the meniscus shape). The admitted prior art of page 2, lines 13-18 teaches the effects of the meniscus shape in reducing localized stress in similar devices. It would have been obvious to one of ordinary skill in the art at the time the invention was made to use a greater degree of meniscus shape resulting in both axial lengths of the internal cylindrical face of each of the sleeves and axial length of the external cylindrical face of the sleeve are longer than the axial length of the sleeve as measured between bottoms of the corresponding meniscuses to further reduce localized stresses as taught by the admitted prior art, thereby increasing the service life of the device of Byrnes et al.

Response to Arguments

Applicant's arguments filed 8/16/2004 have been fully considered but they are not persuasive.

Figures 5 and 7a-b show axial ends which are meniscus or curved shaped and face outwards along the axis as broadly recited by the claims. It is also noted that portions of all concave surfaces naturally diverge from a common axis. It is maintained that the rejections are proper. Regarding claim 18, see the new grounds of rejection above.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any

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extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later

than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Bradley T King whose telephone number is (703) 308-

8346. The examiner can normally be reached on 11:00-7:30 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Jack Lavinder can be reached on (703) 308-3421. The fax phone number

for the organization where this application or proceeding is assigned is 703-872-9306.

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BTK

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